HONORS Chemistry Single Replacement Lab – Rubric **(40 pts)**

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|  | Excellent | Satisfactory | Not Acceptable |
| Title | **1 pts**  Title accurately and briefly explains the lab work | **N/A** | **0 pts**  Title is not present |
| Purpose | **3 pts**  Purpose accurately explains the experimental goals | **1-2 pts**  Purpose lacks clarity towards experimental goals. | **0 pts**  Purpose is not present or fails to identify the goals of the lab |
| Materials | **3 pts**  All materials used in the lab are identified correctly | **1-2 pts**  Some materials used in the lab are not identified correctly | **0 pts**  Few or no materials used in the lab are identified correctly |
| Procedure | **3 pts**  All lab procedures are clearly stated with all necessary materials | **1-2 pts**  All lab procedures are stated, but some materials are missing | **0 pts**  Most lab procedures are incorrect or not present |
| Data Table 1 – Physical Observations | **4-5 pts**  Data tables are accurately and completely filled. | **2-3 pts**  Data tables are partially filled and accurately reflect the experimental work performed. | **0-1 pts**  Data tables are incomplete, do not reflect experimental work, or are not present |
| Calculations | **8-10 pts**  Calculations are completed without significant mistakes | **4-7 pts**  Several calculations are incorrect or not determined | **0-3 pts**  Most calculations are incorrect or not determined |
| Questions | **8-10 pts**  Most or all questions are answered clearly and correctly | **4-7 pts**  Most answers are vague or partially correct | **0-3 pts**  Answers are incorrect or not present |
| Accuracy | **2 pts**  Percent error for oxygen % composition is less than or equal to 10 | **1 pt**  Percent error for oxygen % composition is less than or equal to 20 | **0 pts**  Percent error for oxygen % composition is greater than 20 |
| Conclusion | **3 pts**  Conclusion accurately summarizes the experimental work as related to the purpose of the experiment | **1-2 pts**  Conclusion incorrectly or vaguely summarizes the experimental work as related to the purpose of the experiment | **0 pts**  Conclusion is not present |